

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/98

Date Received: 09/03/98

Project: Metro Self Monitor, PO# M12124

Date Samples Extracted: 09/04/98

Date Extracts Analyzed: 09/08/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M12124	1.7	1.4	1.7	0.16
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/98

Date Received: 09/03/98

Project: Metro Self Monitor, PO# M12124

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 8080110-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.97	0.93	4	0-20
Copper	mg/L (ppm)	0.94	0.92	2	0-20
Nickel	mg/L (ppm)	1.2	1.2	0	0-20
Zinc	mg/L (ppm)	0.08	0.08	0	0-20

Laboratory Code: 808110-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.97	107	111	80-120	4
Copper	mg/L (ppm)	5	0.94	104	107	80-120	3
Nickel	mg/L (ppm)	10	1.2	108	109	80-120	1
Zinc	mg/L (ppm)	5	0.08	114	112	80-120	2

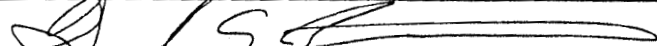
Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	107	108	80-120	1
Copper	mg/L (ppm)	5	107	106	80-120	1
Nickel	mg/L (ppm)	10	109	110	80-120	1
Zinc	mg/L (ppm)	5	111	114	80-120	3



809018

BI
MM
11:03
9/3/98

Send Report To: Alaskan Copper Works Company 628 Harvard St Address Seattle WA City, State, Zip 98101 Phone # (206) 382-8379 FAX # (206) 382-4700 Date 9-5-88 Contact Gerald Thompson

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	Metro Self Monitor	112124
SAMPLERS (signature)	PROJECT LOCATION	
	3200 6th Ave S	
REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD Thompson	APW	9/3/98	11:03 AM
Received by: 	MANUEL MARTI	FBI	9-3-98	11:03
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 10, 1998

DUPLICATE COPY

INVOICE #98ACU0910-3

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M12124: Results of testing requested
by Gerry Thompson for material submitted on September 3, 1998.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 10, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 3, 1998 from your Metro Self Monitor, PO# M12124 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU0910R.DOC